Epidemiology of HIV Among Women in Florida, Reported through 2014

Florida Department of Health
HIV/AIDS Section
Division of Disease Control and Health Protection
Annual data as of 12/31/2014
HIV and AIDS Case Data

- Adult cases represent ages 13 and older, pediatric cases are those under the age of 13. For data by year, the age is by age of diagnosis. For living data, the age is by current age at the end of the most recent calendar year, regardless of age at diagnosis.
- Unless otherwise noted, whites are non-Hispanic and blacks are non-Hispanic.
- Total statewide data will include Department of Correction Cases (DOC) unless otherwise noted. County data will exclude DOC cases.
- HIV prevalence data are generated later in the year, usually in July, when most of the “expected” death data are complete.

Rates of Diagnoses of HIV Infection among Adult and Adolescent Females, 2013—United States and 6 Dependent Areas

N = 9,479  Total rate = 6.9

Note. Data include persons with a diagnosis of HIV infection regardless of stage of disease at diagnosis. All displayed data have been statistically adjusted to account for reporting delays, but not for incomplete reporting.
Adult HIV Case Rates* Among Females, by County of Residence**, Reported in 2014, Florida

Statewide Data:
N=1,254
State Rate = 14.7
Rate per 100,000 Population

*Population data are from Florida CHARTS
**County totals exclude Department of Corrections cases (N=13).
Adult AIDS Case Rates* Among Females, by County of Residence**, Reported in 2014, Florida

Statewide Data:
N=804
State Rate = 9.4
Rate per 100,000 Population

*Population data are from Florida CHARTS
**County totals exclude Department of Corrections cases (N=7).
Adult HIV Cases
Among Women by Year of Report, 2005-2014, Florida

Year of Report

Number of Cases


0 500 1,000 1,500 2,000 2,500

2,002 1,915 1,960 2,088 1,480 1,262 1,233 1,058 1,300 1,254

Florida HEALTH
Adult HIV Infection Cases, by Sex and Year of Report, 2005-2014, Florida

Note: In 2014, 80% of the adult HIV infection cases were male, compared to 71% in 2005. Over the past ten years, the proportion of HIV infection cases among men has increased while the proportion among women has decreased. The result is an increase in the male-to-female ratio, from 2.4:1 in 2004 to 3.9:1 in 2014. The relative increase in male HIV cases might be attributed to proportional increases in HIV transmission among men who have sex with men (MSM).
Note: Florida had similar proportion of male and female cases reported in the most recent year, compared to the U.S.
*Source: U.S. data, CDC HIV surveillance report, Vol. 25, Table 1a, 2014 data not available. HIV cases are estimated reports for all 50 states with confidential HIV reporting.
Adult Female HIV Infection Cases, by Race/Ethnicity, and Year of Report, 2005–2014, Florida

Note: HIV case disparities are more evident among women than men. For the past ten years, black women represented over 63% of the cases each year. From 2005 to 2014, the proportion of cases by race/ethnicity among women remained fairly stable.

*Other includes American Indian/Alaska Native, Asian/Pacific Islander, and multi-racial.
Note: In this snapshot of 2014, HIV cases by race/ethnicity among males is more evenly split compared to HIV cases among females where blacks are over-represented, accounting for 62% of adult cases among women.
*Other includes Asian/Pacific Islanders, Native Alaskans/American Indians and multi-racial individuals.
HIV Infection and AIDS Cases and Rates* Among Adult Females by Race/Ethnicity, Reported in 2014, Florida

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>HIV Cases</th>
<th>HIV Rate</th>
<th>AIDS Cases</th>
<th>AIDS Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>236</td>
<td>4.7</td>
<td>125</td>
<td>2.5</td>
</tr>
<tr>
<td>Black</td>
<td>780</td>
<td>61.2</td>
<td>553</td>
<td>43.4</td>
</tr>
<tr>
<td>Hispanic</td>
<td>218</td>
<td>11.3</td>
<td>108</td>
<td>5.6</td>
</tr>
<tr>
<td>Other</td>
<td>20</td>
<td>5.7</td>
<td>18</td>
<td>5.2</td>
</tr>
<tr>
<td>Total</td>
<td>1,254</td>
<td>14.7</td>
<td>804</td>
<td>9.4</td>
</tr>
</tbody>
</table>

HIV rate ratios:  Black-to-White – 13.0:1
Hispanic-to-White – 2.4:1

AIDS rate ratios:  Black-to-White – 17.4:1
Hispanic-to-White – 2.2:1

*Source: Population estimates are provided by Florida CHARTS as of 7/9/2015.
Note: Similar to AIDS, black men and to an even greater extent, black women are over-represented in the HIV epidemic. The HIV case rate for 2014 is 4 times higher among black men than the rate among white men. Among black women, the HIV case rate is 13-fold greater than the rate among white women. Hispanic male and female HIV case rate is higher than the rate among their white counterparts.

*Source: Population estimates are provided by Florida CHARTS as of 7/9/2015.
HIV cases tend to reflect more recent transmission than AIDS cases, and thus present a more current picture of the epidemic. With regard to the age group with the highest percent of HIV infection cases, recent estimates show that among males, 29% of HIV infection cases occur among those in the 20-29 age group, whereas among females, 26% of HIV infection cases occur among those in the 50 or older age group.
Adult Female HIV Cases, by Age Group at Diagnosis, and Year of Report, 2005–2014, Florida

Note: As with AIDS cases, over the past several years, the proportion of newly reported female HIV cases have shown increases for those aged 50 and older. This age group has increased 9 percentage points over the past ten years.
Adult Female AIDS Cases, by Age Group at Diagnosis, and Year of Report, 2005–2014, Florida

Note: Over the past several years, the proportion of newly reported female AIDS cases has shown increases for the 50+ age group. This age group has increased by 16 percentage points over the past ten years.
Definitions of Mode of Exposure Categories

- **IDU** = Injection Drug User
- **Heterosexual** = Heterosexual contact with person with HIV/AIDS or known HIV risk
- **OTHER** = includes hemophilia, transfusion, perinatal, other pediatric risks, and other confirmed risks.
- **NIR** = Cases reported with No Identified Risk
- **Redistribution of NIRs** = This illustrates the effect of statistically assigning (redistributing) the NIRs to recognized exposure (risk) categories by applying the proportions of historically reclassified NIRs to the unresolved NIRs.
Note: NIRs redistributed. Among the female HIV and AIDS cases reported for 2014, heterosexual contact was the highest risk (89% and 85% respectively).
Note: NIRs redistributed. The heterosexual risk continues to be the dominant mode of exposure among females.
Note: NIRs redistributed. The heterosexual risk continues to be the dominant mode of exposure among females with AIDS.
Cases Living with HIV Disease

Unless otherwise noted, data in the following slides represent cases living with HIV Disease, also referred to Persons Living with HIV/AIDS (PLWHAs), who were reported through the most recent calendar year. Living data are also referred as prevalence cases.

HIV prevalence data are generated later in the year, usually in July, when most of the “expected” death data are complete.

Adult cases represent ages 13 and older, pediatric cases are those under the age of 13. For data by year, the age is by age of diagnosis. For living data, the age is by current age at the end of the most recent calendar year, regardless of age at diagnosis.

Unless otherwise noted, whites are non-Hispanic and blacks are non-Hispanic.

Total statewide data will include Department of Correction Cases (DOC) unless otherwise noted. County data will exclude DOC cases.

Selected slides from the Florida HIV Prevalence Slide Set, see site below for entire set.
Adult Females Living with HIV Disease, by Race/Ethnicity, Current Age Group and Mode of Exposure, Diagnosed through 2014, Florida

<table>
<thead>
<tr>
<th>Race/Ethnicity</th>
<th>No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>4,765</td>
<td>15%</td>
</tr>
<tr>
<td>Black</td>
<td>21,179</td>
<td>68%</td>
</tr>
<tr>
<td>Hispanic</td>
<td>4,595</td>
<td>15%</td>
</tr>
<tr>
<td>Other</td>
<td>608</td>
<td>2%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Age Group</th>
<th>No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>13-19</td>
<td>325</td>
<td>1%</td>
</tr>
<tr>
<td>20-29</td>
<td>2,440</td>
<td>8%</td>
</tr>
<tr>
<td>30-39</td>
<td>6,029</td>
<td>19%</td>
</tr>
<tr>
<td>40-49</td>
<td>9,151</td>
<td>29%</td>
</tr>
<tr>
<td>50+</td>
<td>13,202</td>
<td>42%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mode of Exposure*</th>
<th>No.</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDU</td>
<td>4,109</td>
<td>13%</td>
</tr>
<tr>
<td>Heterosexual Contact</td>
<td>26,178</td>
<td>84%</td>
</tr>
<tr>
<td>Other Confirmed Risk</td>
<td>860</td>
<td>3%</td>
</tr>
<tr>
<td>Total</td>
<td>31,147</td>
<td></td>
</tr>
</tbody>
</table>

Adjustments have been made to redistribute NIR cases.

*NIRs redistributed.
Adult Females Living with HIV Disease, by Race/Ethnicity and Current Age Group, Diagnosed through 2014, N=31,147, Florida

**White**  
n = 4,765

**Black**  
n = 21,179

**Hispanic**  
n = 4,595

Note: Black females living with HIV disease have a lower proportion of cases living past the age of 40 (70%), compared to white females (75%) and Hispanic females (75%). Data for Other females (which includes Asian/Pacific Islanders, Native Alaskans/American Indians and Multi-racial individuals) are not shown (n=608).
Adult Females Living with HIV Disease, by Current Age Group and Race/Ethnicity, Diagnosed through 2014, N=31,147, Florida

Note: Among adult females living with HIV disease by race/ethnicity and age group, black females represent the highest proportion of cases for each age group.
Adults Living with HIV Disease, by Sex and Race/Ethnicity Diagnosed through 2014, Florida

Males N=78,644

- Black: 38%
- Hispanic: 24%
- White: 36%
- Other*: 2%

Females N=31,147

- Black: 68%
- Hispanic: 15%
- White: 15%
- Other*: 2%

Note: Among adults living with HIV disease, blacks represent the race most affected among both males (38%) and females (68%).
*Other includes Asian/Pacific Islanders, Native Alaskans/American Indians and Multi-racial individuals.
Case Rates* of Adults Living with HIV Disease, by Sex and Race/Ethnicity, Diagnosed through 2014, Florida

RATE RATIOS:

MALES
- Black:White, 4.5:1
- Hispanic:White, 1.7:1
- Other:White, 0.8:1

FEMALES
- Black:White, 17.4:1
- Hispanic:White, 2.5:1
- Other:White, 1.8:1

Note: In 2014, among black males, the case rate is nearly 5 times higher than the rate among white males. Among black females, the case rate is 17-fold greater than the rate among white females. Among Hispanic females, the case rate is nearly 3 times higher than the rate among their white counterparts. The case rate among Hispanic males is slightly lower than the rate among their white counterparts.

*Source: Population estimates are provided by Florida CHARTS as of 07/09/2015.

**Other includes Asian/Pacific Islanders, Native Alaskans/American Indians and Multi-racial individuals.
Annual Prevalence of Adults Living with HIV Disease by Sex, 1995-2014, Florida*

Although increases are seen among both men and women, women account for an increasing proportion of persons living with HIV disease. In 2014, women accounted for 29% of persons living with HIV disease, compared with 24% in 1995.

*Note: These data represent adults living with HIV disease diagnosed in Florida regardless of their current residence.
Annual Prevalence of Adult Females Living with HIV Disease, by Race/Ethnicity, 1995-2014, Florida*

*Note: These data represent adults living with HIV disease diagnosed in Florida regardless of their current residence.

**Other includes American Indian/Alaska Native, Asian/Pacific Islander, and multi-racial individuals.
NIRs redistributed. Females living with HIV disease represent those in need of care and secondary prevention initiatives to prevent further transmission. The increase in the number of living female HIV/AIDS cases is primarily attributed to fact that survival time is increasing and outnumbers the annual number of newly reported cases. Heterosexual risk is the predominant mode of exposure and is increasing the fastest.

*Note: These data represent adults living with HIV disease diagnosed in Florida regardless of their current residence.
Adult Females Living with HIV Disease by Race/Ethnicity and Mode of Exposure, Diagnosed through 2014, Florida

- **White**
  - N=4,765
  - Heterosexual: 69%
  - IDU: 29%
  - Other Risk**: 2%

- **Hispanic**
  - N=4,595
  - Heterosexual: 84%
  - IDU: 13%
  - Other Risk**: 3%

- **Black**
  - N=21,179
  - Heterosexual: 87%
  - IDU: 10%
  - Other Risk**: 3%

- **Other***
  - N=608
  - Heterosexual: 81%
  - IDU: 17%
  - Other Risk**: 2%

* Other includes Asian/Pacific Islander, Native Alaskan/American Indian and Multi-racial individuals.
** Other Risk includes hemophilia, transfusion, perinatal and other pediatric risks as well as other confirmed risks.

Note: NIRs redistributed.
Adult Females Living with HIV Disease by Mode of Exposure, Asian / Hawaiian / Pacific Islanders and American Indians / Alaska Natives, Diagnosed through 2014, Florida

Asian / Hawaiian / Pacific Islanders (N=160)  American Indian / Alaska Natives (N=74)

Note: NIRs redistributed. Heterosexual contact is the primary risk for each group (91% and 70% respectively). IDU risk has a much larger proportion of cases among American Indians compared to Asians.
Hispanic Females Living with HIV Disease by Country of Birth and Sex Alive & Diagnosed through 2014, Florida, N=4,199

Black Females Living with HIV Disease by Country of Birth and Sex Alive & Diagnosed through 2014, Florida, N=20,561
Number and Percentage of Persons Diagnosed and Living with HIV (PLWH) Engaged in Selected Stages of the Continuum of HIV Care Among Females, Florida, 2014

- 82% of those diagnosed with HIV in 2014 had documented HIV-related care within 3 months of diagnosis
- 78% of PLWH in care had a suppressed viral load in 2014

(1) **HIV Diagnosed**: Persons diagnosed and living with HIV (PLWH) in Florida through the end of 2014.
(2) **Ever in Care**: PLWH with at least 1 documented viral load (VL) or CD4 lab, medical visit or prescription since HIV diagnosis.
(3) **In Care**: PLWH with at least 1 documented VL or CD4 lab, medical visit or prescription in 2014.
   - **Retained in Care**: PLWH with 2 or more documented VL or CD4 labs, medical visits or prescriptions (at least 3 months apart) in 2014.
(4) **On ART**: This bar was omitted on tables with demographic and risk breakdowns because the estimated value is based on small numbers.
(5) **Suppressed Viral Load**: PLWH with a suppressed VL (<200 copies/mL) on last VL in 2014.
Number and Percentage of Persons Diagnosed and Living with HIV (PLWH) Engaged in Selected Stages of the Continuum of HIV Care Among Black Heterosexual Females, Florida, 2014

- 78% of those diagnosed with HIV in 2014 had documented HIV-related care within 3 months of diagnosis
- 77% of PLWH in care had a suppressed viral load in 2014

1. **HIV Diagnosed**: Persons diagnosed and living with HIV (PLWH) in Florida through the end of 2014.
2. **Ever in Care**: PLWH with at least 1 documented viral load (VL) or CD4 lab, medical visit or prescription since HIV diagnosis.
3. **In Care/Retained in 2014**: PLWH with at least 1 documented VL or CD4 lab, medical visit or prescription in 2014. 
   - Retained in Care: PLWH with 2 or more documented VL or CD4 labs, medical visits or prescriptions (at least 3 months apart) in 2014.
4. **On ART**: This bar was omitted on tables with demographic and risk breakdowns because the estimated value is based on small numbers.
5. **Suppressed Viral Load**: PLWH with a suppressed VL (<200 copies/mL) on last VL in 2014.
HIV Mortality in Florida

Resident HIV deaths due to HIV disease represent persons who resided in Florida and whose underlying cause of death was HIV disease, regardless if they were reported with HIV disease in Florida or not.

- The data source is death certificate data from the Florida Department of Health, Bureau of Vital Statistics.

HIV case deaths are known cases of HIV disease (regardless of AIDS status) reported in Florida and are known to be dead, regardless of the cause of death. It is important to understand if any known HIV/AIDS cases died in any given year for estimates of the current burden of HIV/AIDS care and treatment needs within the state.

- The data source is the Florida HIV/AIDS Reporting System (eHARS) from the Florida Department of Health, Bureau of Communicable Diseases.

Selected slides from the Florida Deaths Slide Set, see site below for entire set.
Rate* of Resident Deaths** due to HIV Disease, by Sex and Race/Ethnicity, 2014, Florida

Note: In 2014, black males were nearly 6 times more likely than white males to die of HIV disease. The HIV disease death rate among black females was 17-fold greater than the rate among white females. Hispanic females rate were slightly higher than the rate among their white counterpart. Hispanic males rate were equivalent to the rate among their white counterpart.

*Source: Population data were provided by Florida CHARTS (as of 07/09/2015).
**Source: Florida Department of Health, Bureau of Vital Statistics, Death Certificates (as of 05/31/2015).
Resident Deaths* Due to HIV Disease Among Females by Race/Ethnicity and Year of Death, 2005-2014, Florida

Note: In 2014, the proportional distribution of female resident HIV deaths due to HIV disease by race/ethnicity was: 16% among whites, 77% among blacks, and 7% among Hispanics. This compared to 17%, 73% and 8%, respectively for 2013.

*Source: Florida Department of Health, Office of Vital Statistics, Death Certificates (as of 05/31/2015).
Leading Causes of Death Among Women 25-44 Years Old by Race/Ethnicity, 2014, Florida

**Black Women**
HIV is the 3rd leading cause

**Hispanic Women**
HIV is 8th leading cause

Note: Among White Females (data not shown) HIV is the 9th leading cause of death.
Median Survival Time (in months) from AIDS Diagnosis to Death, by Sex and Total Deaths for this Period, 2007-2014, Florida

<table>
<thead>
<tr>
<th>Period of Death: 2007 - 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Males</strong></td>
</tr>
<tr>
<td>77 mo.</td>
</tr>
<tr>
<td>10,024 deaths</td>
</tr>
<tr>
<td><strong>Females</strong></td>
</tr>
<tr>
<td>62 mo.</td>
</tr>
<tr>
<td>4,448 deaths</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
</tr>
<tr>
<td>72 mo.</td>
</tr>
<tr>
<td>14,472 deaths</td>
</tr>
</tbody>
</table>

Note: These data show that the median survival time for females is about 15 months less than the median survival time for males. This could be due to women being diagnosed with AIDS later in their course of illness thus shortening their apparent survival time. However, it could also reflect that females enter care for HIV disease later, have more drug adherence issues, or a host of other factors that could be damaging to a patient’s underlying health status and outcomes.

*Source: Florida Department of Health, Bureau of Communicable Diseases, HIV/AIDS Reporting System (as of 06/30/2015)*
Note: These data show that the differences in median survival time by gender discussed on the previous table are not uniform for all racial/ethnic groups. For instance, the gender difference among whites and American Indians are much larger than the difference between genders for blacks, Hispanics and Asians. This confirms the assertion that there are no biologic differences between these groups that account for their differences in outcomes but rather it is most likely social and cultural barriers that are leading to poorer outcomes.

*Source: Florida Department of Health, Bureau of Communicable Diseases, HIV/AIDS Reporting System (as of 06/30/2015)
These data represent an 89% decline in pediatric AIDS cases by year of diagnosis from 1992 (N=177) to 2014 (N=21). Due to reporting lags, 2014 data by year of diagnosis are provisional. Data as of 06/30/2015.
Perinatally Acquired HIV Infection Cases
Born in Florida, by Mother’s Mode of Exposure and Year of Birth, 1979-2014

Note: Among children who were infected perinatally with HIV/AIDS, the distribution of their mothers’ exposure categories has changed over time. For both time periods, heterosexual contact was the most common risk, with 58% of the cases born between 1979-1993, increasing to 69% of cases born between 1994-2014.
Perinatally acquired HIV infection cases among non-Hispanic blacks are disproportionately affected compared with those of other race/ethnicities. Of the 1,220 perinatally acquired HIV infection cases born in Florida through 2014, 8% were white, 81% were black and 9% were Hispanic.

*Source: Population estimates are provided by Florida CHARTS as of 07/09/2015.
Over the past ten years, women aged between 30-39 continue to represent the majority of women of childbearing age newly diagnosed with HIV disease each year.
Cases of HIV Disease Among Women of Childbearing Age (Ages 15-44), by Mode of Exposure, and Year of Diagnosis, 2005–2014, Florida

Note: Heterosexual risk continues to be the dominant mode of exposure among females.
Cases of HIV Disease Among Women of Childbearing Age (Ages 15-44), by Race/Ethnicity, and Year of Diagnosis, 2005–2014, Florida

Note: Although the majority of HIV cases among females are black, the number of HIV cases among black females have decreased 45% from 2005 to 2014. Likewise, the number of HIV cases decreased by 19% among white females and 40% among Hispanic females, over this same time period.

*Other races represent less than 3% of the cases and are not included. Data as of 06/30/2015.
Since 1995 black females represent over 65% of women of childbearing age living with HIV disease each year.

*Note: These data represent adults living with HIV disease diagnosed in Florida regardless of their current residence. Other races represent less than 3% of the cases and are not included. Data as of 06/30/2015.
Women-specific Symptoms of HIV Infection:

- Vaginal yeast infections
- Pelvic inflammatory disease (PID)
- Menstrual irregularities
- Human papillomavirus
- Idiopathic genital ulcers
- Other vaginal infections

Source: National Institute of Allergy and Infectious Diseases (NIAID) National Institutes of Health
http://www.niaid.nih.gov/factsheets/womenhiv.htm
Efforts to Prevent HIV Infection in Women may be Complex for Several Reasons:

• Women who are financially dependent on male partners are at a disadvantage in negotiating condom use

• Women who are sex partners of HIV-infected men, bisexual men, and IDUs are difficult to identify and target

• Women at highest risk already face a multitude of other problems, including poverty, substance abuse, alcoholism, violence, unemployment and unplanned pregnancies
For Florida HIV/AIDS Surveillance Data
Contact: (850) 245-4444

Lorene Maddox, MPH   Ext. 2613
Tracina Bush, BSW    Ext. 2612
Madgene Moise, MPH   Ext. 2373

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- Slide Sets and Fact Sheets
- Annual Reports and Epi Profiles


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- Surveillance Reports, fact sheets and slide sets

http://www.cdc.gov/hiv/topics/surveillance/resources/reports/index.htm